XS-AW1

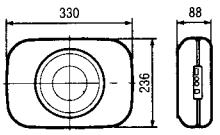
SERVICE MANUAL

AEP Model
E Model

SPECIFICATIONS

Speaker section	
Type	Woofer: 16 cm closed type, injection-molded PP cone type High compliance, rolled edge Heat-resistant voice coil Strontium magnet: 380 g
Maximum input power	80 W
Rated input power	50 W
Impedance	4 ohms
Sensitivity	90 dB/10 W/m
Frequency response	40 – 180 Hz
Amplifier section	
Maximum power output	80 W
Rated power output	50 W
Power requirement	12 V DC car battery (negative ground)
Current consumption	7 A
Weight	Approx. 4.2 kg

Dimensions Unit: mm



MICROFILM

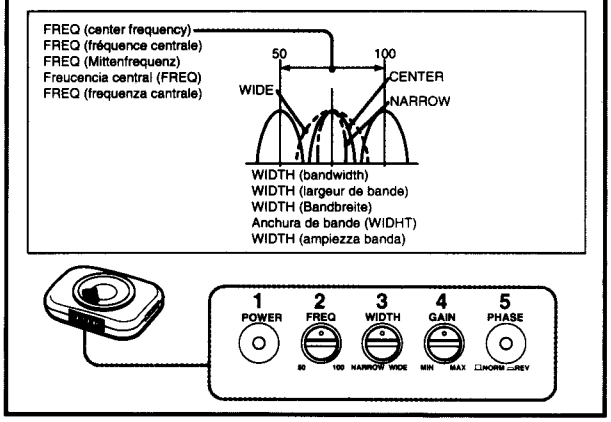
ACTIVE SUPER WOOFER SYSTEM

SONY®

SECTION 1
GENERAL

This section is extracted from instruction manual.

Parts Identification and How to Use
Identification et utilisation des commandes
Bezeichnung der Teile und Betrieb
Identificación de partes y forma de empleo de las mismas
Identificazione delle parti e uso



1 POWER indicator
When power is turned on, the POWER indicator lights up.

2 FREQ (center frequency) control
Adjust the center frequency of the reproduced sound with this control. Turn it counterclockwise (to 50) to obtain more dynamic bass, turn it clockwise (to 100) for more crisp bass.

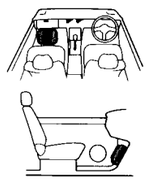
3 WIDTH (bandwidth) control
Adjust the bandwidth of the reproduced sound with this control. Turn it counterclockwise (to NARROW) to decrease the bandwidth, turn to clockwise (to WIDE) to increase the bandwidth.

4 GAIN control
Adjust the volume of the reproduced sound with this control.

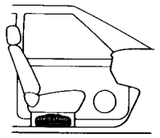
5 PHASE selector
Change the phase of the reproduced sound with this selector to match your audio system.

Mounting
Montage
Montageteile
Montaje
Montaggio

Mounting Examples
Exemples de montage
Montagebeispiele
Ejemplos de montaje
Esempi di montaggio



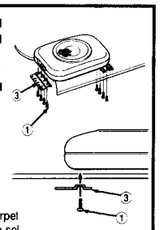
Navigator seat
Siège du conducteur
Fahrersitz
Asiento del acompañante
Posto di guida



Navigator seat
Siège du conducteur
Fahrersitz
Asiento del acompañante
Posto di guida

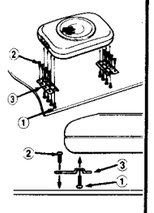
How to Install
Installation
Einbau
Forma de instalación
Installazione

Example 1
Exemple 1
Beispiel 1
Ejemplo 1
Esempio 1



Floor carpet
Tapis de sol
Bodenteppich
Alfombra del piso
Tappettino

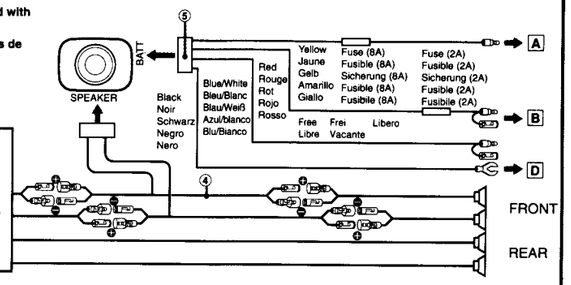
Example 2
Exemple 2
Beispiel 2
Ejemplo 2
Esempio 2



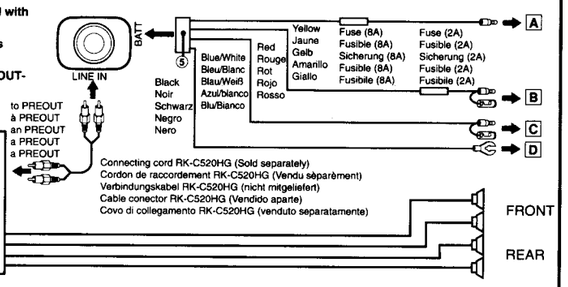
Floor carpet or car chassis
Tapis de sol ou châssis de la voiture
Bodenteppich oder Fahrzeugchassis
Alfombra del piso o chasis del automóvil
Tappettino o telaio dell'auto

Connections
Connexions
Anschluß
Conexiones
Collegamenti

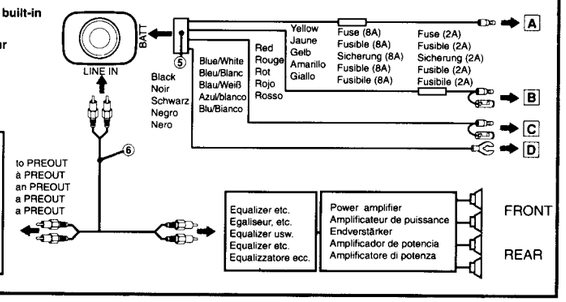
1. When connecting to the car audio equipped with the speaker outputs only.
1. Connexion d'un autoradio équipé de sorties de haut-parleur uniquement.
1. Anschluß an ein Auto-Audiogerät, das nur Lautsprecherausgänge besitzt.
1. Para realizar la conexión a un sistema de audio para automóvil provisto de salidas para altavoces solamente.
1. Collegamento ad un autostereo dotato solo di uscite diffusori.



2. When connecting to the car audio equipped with PREOUT terminals.
2. Connexion d'un autoradio équipé de bornes PREOUT.
2. Anschluß an eine Auto-audiogerät mit PREOUT-Buchsen.
2. Para realizar la conexión a un sistema de audio para automóvil provisto de terminales PREOUT.
2. Collegamento ad un autostereo dotato di terminali PREOUT.



3. When connecting to the car audio without a built-in amplifier.
3. Connexion d'un autoradio sans amplificateur intégré.
3. Anschluß an ein Auto-Audiogerät ohne eingebauten Endverstärker.
3. Para realizar la conexión a aun sistema de audio para automóvil desprovisto de amplificador incorporado.
3. Collegamento ad un autostereo non dotato di amplificatore incorporato.



A: to the +12 V power terminal which is energized at all times
B: to the +12 V power terminal which is energized with the ignition key in the accessory position
C: to the remote output of the car audio
D: to a metal point of the car

Cord color
Red: Power input lead
Yellow: Power input lead
Black: Ground wire
Blue/White: Remote output lead

A: à la borne d'alimentation +12 V qui est énergétisée en permanence
B: à la borne d'alimentation +12 V qui est énergétisée quand la clé de contact est sur la position accessoire
C: à la sortie de télécommande de l'autoradio
D: à un point métallique de la voiture

Couleur des cordons
Rouge: Fil d'entrée d'alimentation
Jaune: Fil d'entrée d'alimentation
Noir: Fil de masse
Bleu/Blanc: Fil de sortie d'alimentation

A: An +12 V Kontakt des Bordnetzes, der stets unter Strom steht.
B: An +12 V Kontakt des Bordnetzes, der in der Zubehörposition des Zündschlosses unter Strom steht.
C: an Fernsteuerausgang des Auto-Audiogeräts
D: An Metallteil des Wagens

Kabelfarben
Rot: Stromversorgungsleitung
Gelb: Stromversorgungsleitung
Schwarz: Erdleitung
Blau/Weiß: Fernsteuer-Ausgangskabel

A: a un terminal de +12 V que esté permanentemente energizado
B: a un terminal de +12 V que se energice al poner la llave de encendido en la posición para accesorios
C: a la salida de control remoto del sistema de audio del automóvil
D: a un punto metálico del automóvil

Código de colores
Rojo: Conductor de entrada de alimentación
Amarillo: Conductor de entrada de alimentación
Negro: Conductor de puesta a masa
Azul/blanco: Conductor de salida para control remoto

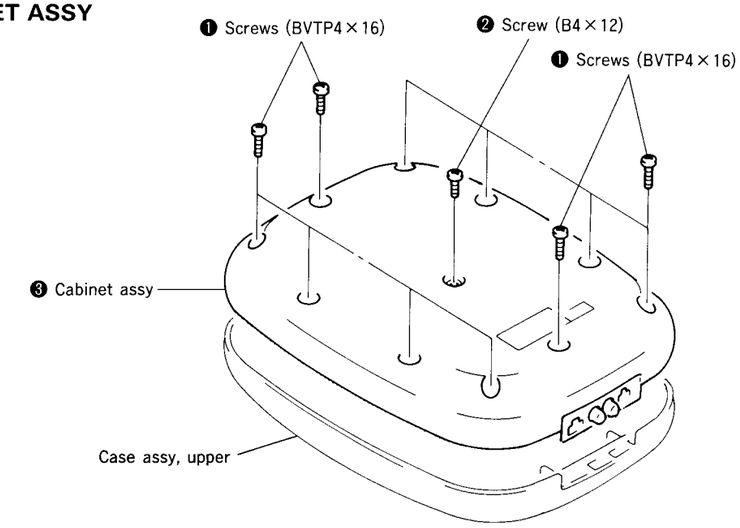
A: al terminale di alimentazione +12 V che è sempre sotto tensione
B: al terminale di alimentazione +12 V che è sotto tensione quando la chiave di ignizione si trova nella posizione accessoria
C: all'uscita di comando a distanza dell'autostereo
D: ad un punto metallico dell'auto

Colori dei cavi
Rosso: Cavo di ingresso alimentazione
Giallo: Cavo di ingresso alimentazione
Nero: Cavo a massa
Blu/Bianco: Cavo di uscita telecomendo

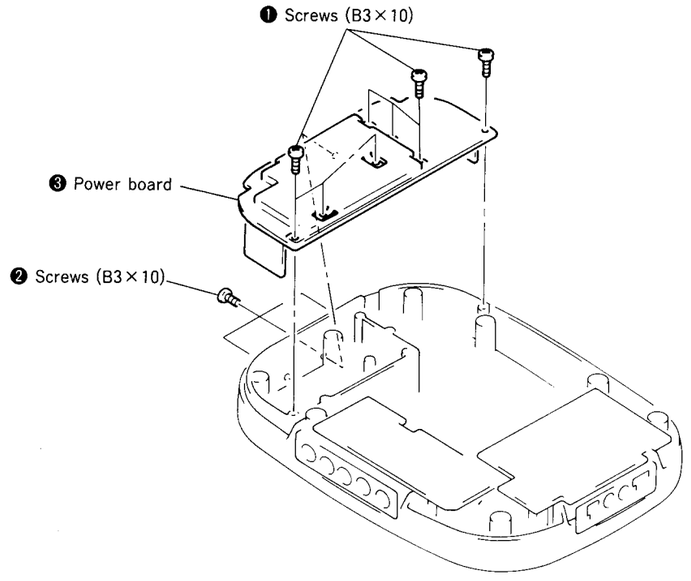
SECTION 2
DISASSEMBLY

NOTE: Follow the disassemdly procedure in the numerical order given.

CABINET ASSY



POWER BOARD

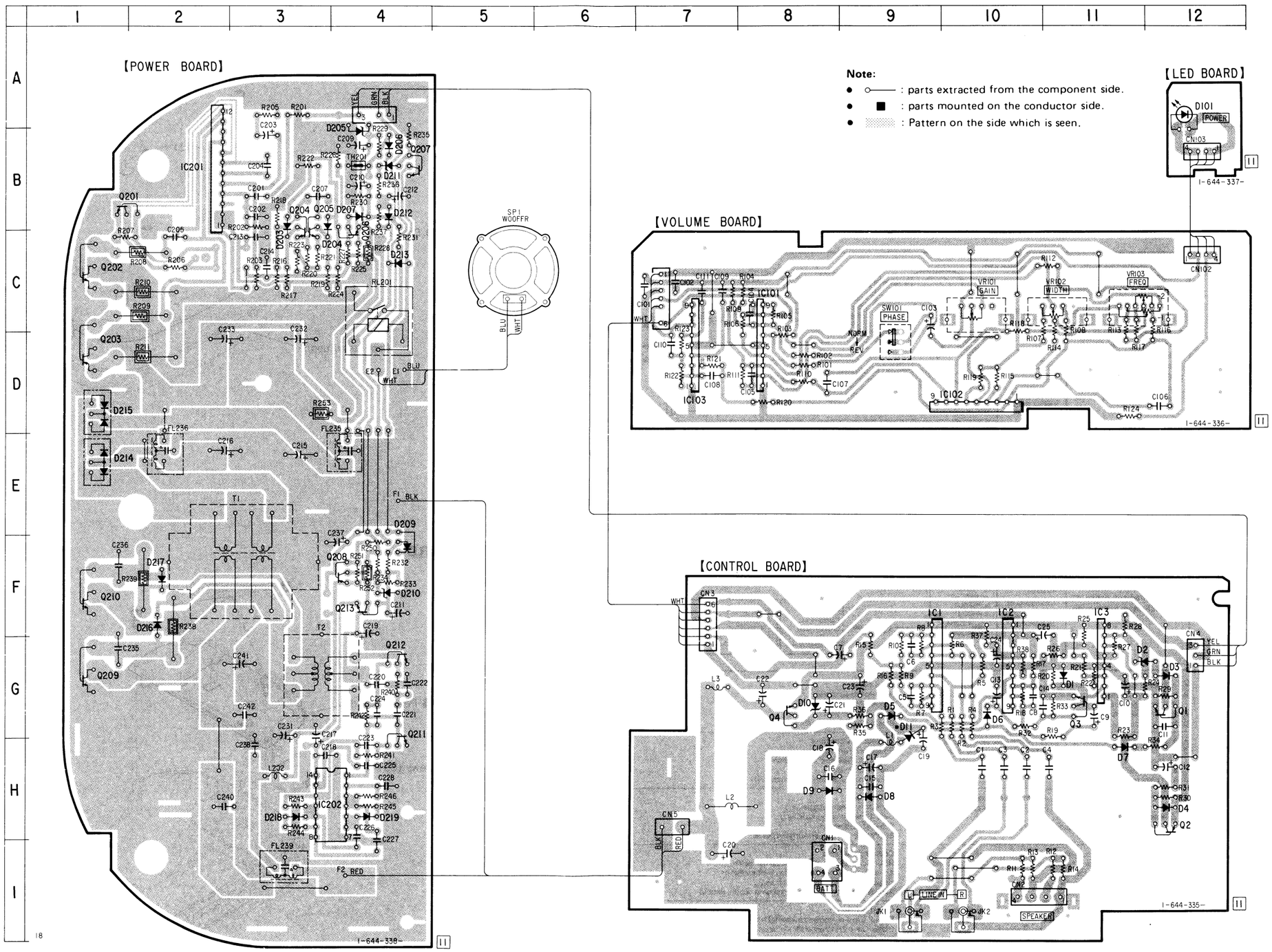


SECTION 3
DIAGRAMS

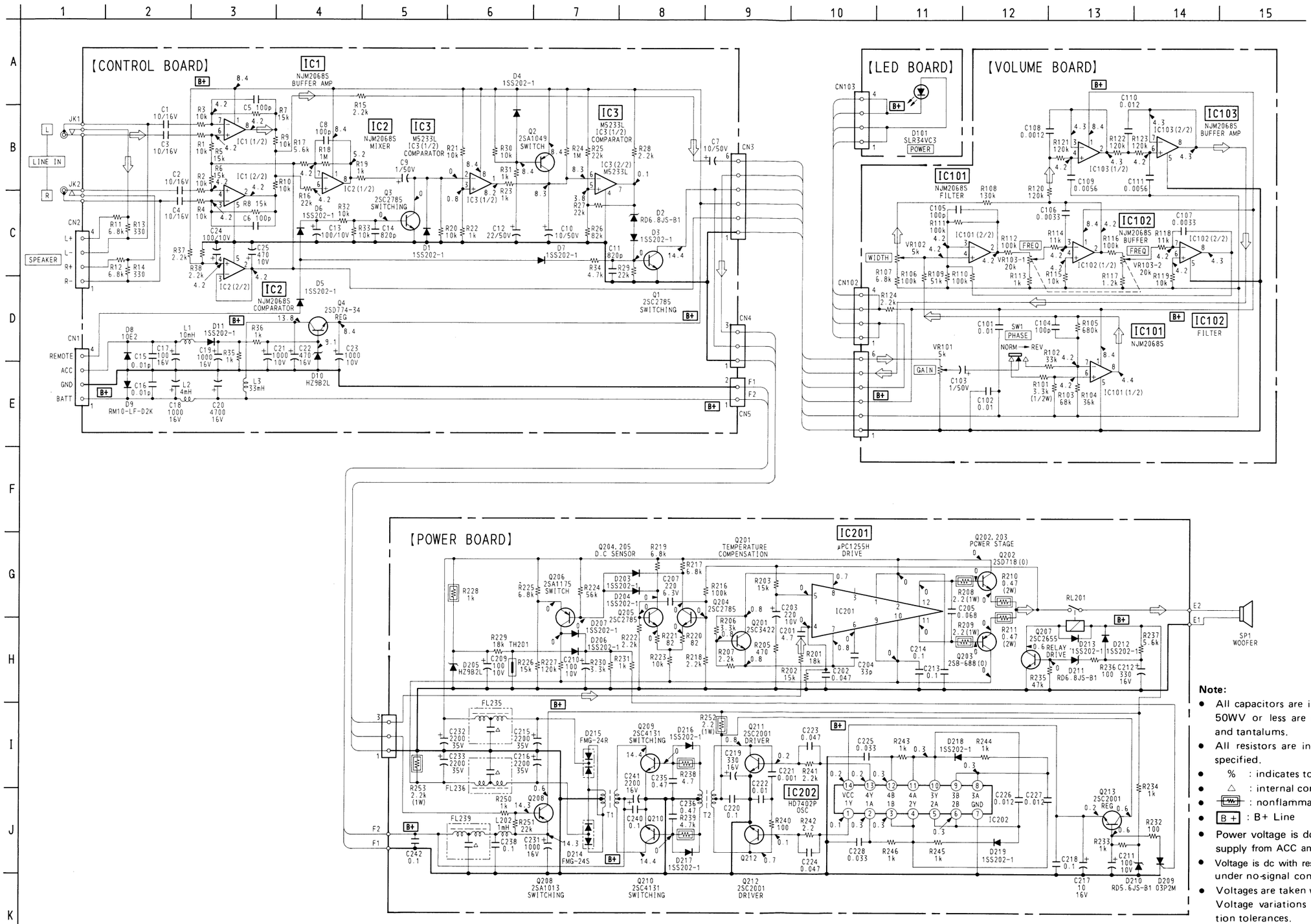
PRINTED WIRING BOARD

● **Semiconductor Location**

Ref. No.	Location
D1	G-11
D2	G-12
D3	G-12
D4	H-12
D5	G-9
D6	G-10
D7	H-11
D8	H-9
D9	H-8
D10	G-8
D11	G-9
D101	A-12
D203	B-3
D204	B-3
D205	A-4
D206	B-4
D207	B-4
D209	F-4
D210	F-4
D211	B-4
D212	B-4
D213	C-4
D214	D-1
D215	E-1
D216	F-2
D217	F-2
D218	H-3
D219	H-4
IC1	G-9
IC2	G-10
IC3	G-11
IC101	D-8
IC102	D-10
IC103	D-7
IC201	B-2
IC202	H-3
Q1	G-12
Q2	H-12
Q3	G-11
Q4	G-8
Q201	B-1
Q202	C-1
Q203	D-1
Q204	B-3
Q205	B-3
Q206	B-4
Q207	B-4
Q208	F-4
Q209	G-1
Q210	F-1
Q211	G-4
Q212	G-4
Q213	F-4



SCHEMATIC DIAGRAM

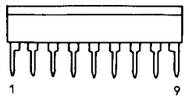


Note:

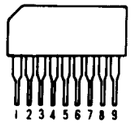
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : nonflammable resistor.
- B+ : B+ Line
- Power voltage is dc14.4V and fed with regulated dc power supply from ACC and BATT terminal
- Voltage is dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path : ⇨

• Semiconductor Lead Layouts

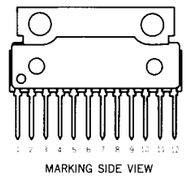
M5233L



NJM2068S-D



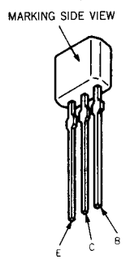
μPC1225H



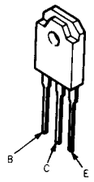
2SA1013-O
2SD774-34

2SA1049-GR

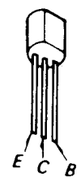
2SA1175-HFE
2SC2785-HFE



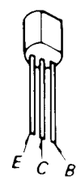
2SB-688 (0)
2SD718 (0)



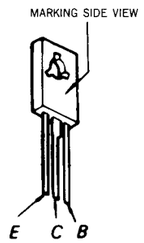
2SC2001-LK



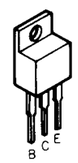
2SC2655-Y



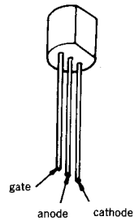
2SC3422-Y



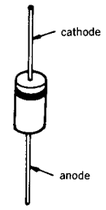
2SC4131



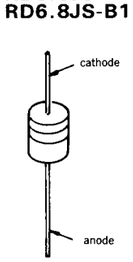
03P2M



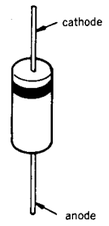
10E2
HZ9B2L



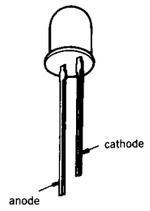
1SS202-1
RD5.6JS-B1
RD6.8JS-B1



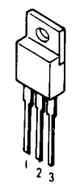
RM10-LF-D2K



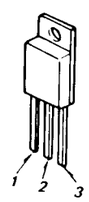
SLR34VC3



FMG-24R

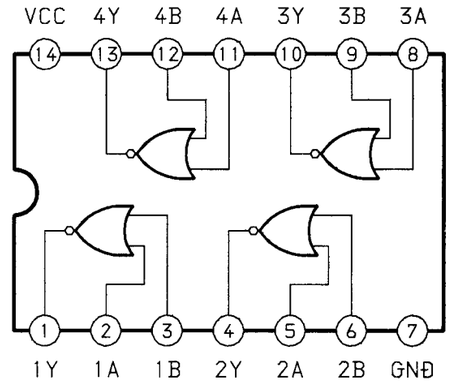


FMG-24S



• IC Block Diagram

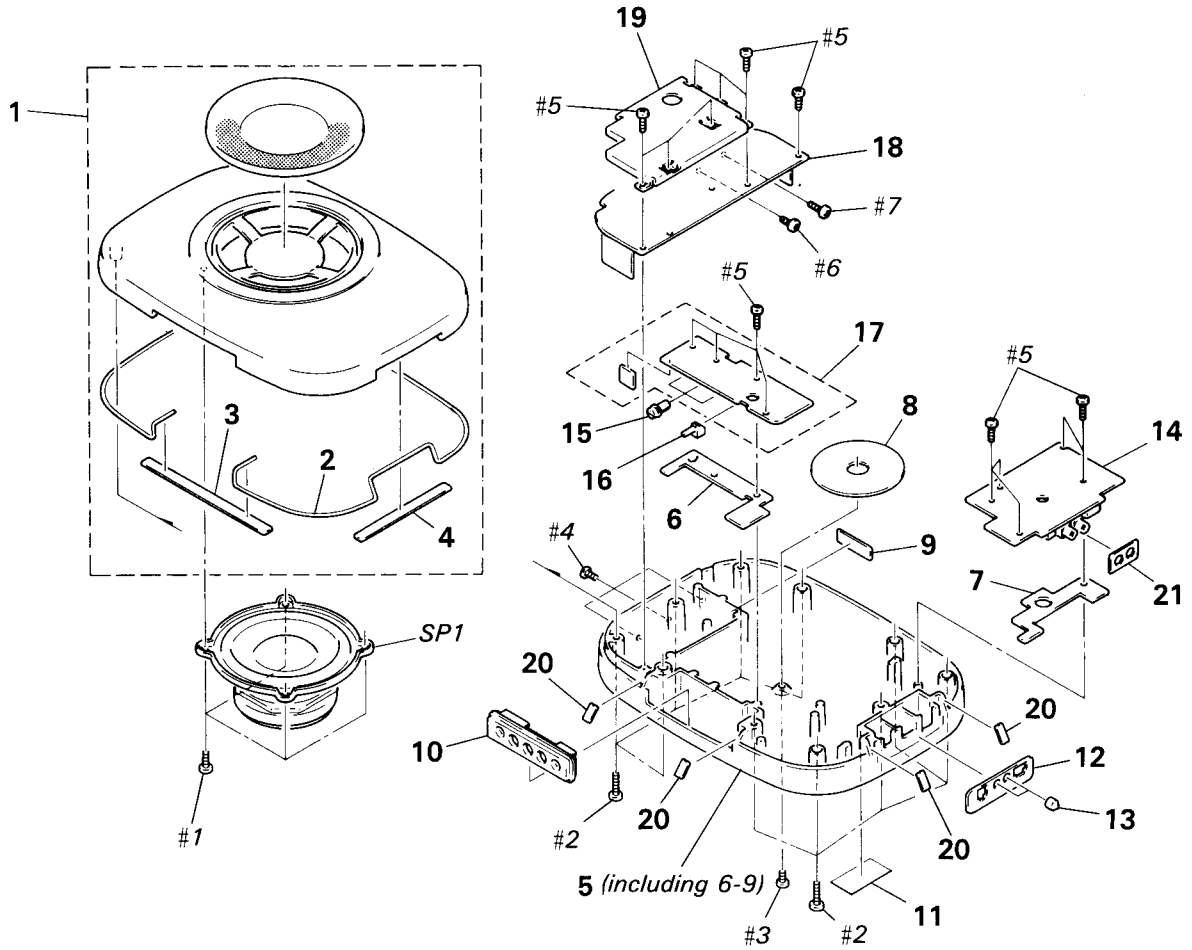
IC202 HD7402P



SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	X-3365-381-1	CASE ASSY, UPPER	
2	3-381-302-01	TUBE, SILICON	
3	3-381-303-01	PACKING (C), ACOUSTIC ISOLATION	
4	3-381-304-01	PACKING (D), ACOUSTIC ISOLATION	
5	X-3365-382-1	CABINET ASSY	
6	3-381-296-01	PACKING (A), ACOUSTIC ISOLATION	
7	3-381-297-01	PACKING (B), ACOUSTIC ISOLATION	
8	3-381-305-01	CUSHION	
9	3-381-306-01	INSULATOR	
10	3-380-819-01	PANEL, FRONT	
11	3-380-737-01	LABEL, MODEL NUMBER	
12	3-381-301-01	PANEL, SIDE	
* 13	4-912-962-01	COVER (1P), TERMINAL	
14	A-3295-094-A	CONTROL BOARD, COMPLETE	
15	3-380-820-01	KNOB, VOLUME	
16	3-381-300-01	KNOB, SWITCH	
17	A-3295-095-A	VOLUME BOARD, COMPLETE	
18	A-3295-096-A	POWER BOARD, COMPLETE	
19	3-381-299-01	PLATE, SHIELD	
20	3-381-307-01	PACKING (E), ACOUSTIC ISOLATION	
21	3-381-308-01	PACKING, RCA	
SP1	1-544-760-11	SPEAKER	

SECTION 5
ELECTRICAL PARTS LIST

CONTROL

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL:Metal-film resistor
  METAL OXIDE:Metal Oxide-film resistor
  F:nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indication parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark
	A-3295-094-A	CONTROL BOARD, COMPLETE			
		**********			
	3-381-343-01	BRACKET, RCA			
		< CAPACITOR >			
C1	1-128-583-11	ELECT	10uF	20%	16V
C2	1-128-583-11	ELECT	10uF	20%	16V
C3	1-128-583-11	ELECT	10uF	20%	16V
C4	1-128-583-11	ELECT	10uF	20%	16V
C5	1-102-973-00	CERAMIC	100PF	5%	50V
C6	1-102-973-00	CERAMIC	100PF	5%	50V
C7	1-124-907-11	ELECT	10uF	20%	50V
C8	1-102-973-00	CERAMIC	100PF	5%	50V
C9	1-124-903-11	ELECT	1uF	20%	50V
C10	1-124-907-11	ELECT	10uF	20%	50V
C11	1-102-117-00	CERAMIC	820PF	10%	50V
C12	1-126-233-11	ELECT	22uF	20%	50V
C13	1-124-443-00	ELECT	100uF	20%	10V
C14	1-102-117-00	CERAMIC	820PF	10%	50V
C15	1-101-004-00	CERAMIC	0.01uF		50V
C16	1-101-004-00	CERAMIC	0.01uF		50V
C17	1-126-101-11	ELECT	100uF	20%	16V
C18	1-124-360-00	ELECT	1000uF	20%	16V
C19	1-124-360-00	ELECT	1000uF	20%	16V
C20	1-126-937-11	ELECT	4700uF	20%	16V
C21	1-124-473-11	ELECT	1000uF	20%	10V
C22	1-126-103-11	ELECT	470uF	20%	16V
C23	1-124-473-11	ELECT	1000uF	20%	10V
C24	1-124-443-00	ELECT	100uF	20%	10V
C25	1-124-472-11	ELECT	470uF	20%	10V
		< CONNECTOR >			
CN1	1-695-277-11	CONNECTOR			
CN2	1-695-278-11	CONNECTOR (SPEAKER)			
CN3	1-695-276-11	CONNECTOR			
CN4	1-695-274-11	CONNECTOR			
CN5	1-695-275-11	CONNECTOR			
		< DIODE >			
D1	8-719-107-94	DIODE	1SS202-1		
D2	8-719-114-44	DIODE	RD6.8JS-B1		
D3	8-719-107-94	DIODE	1SS202-1		
D4	8-719-107-94	DIODE	1SS202-1		
D5	8-719-107-94	DIODE	1SS202-1		
D6	8-719-107-94	DIODE	1SS202-1		
D7	8-719-107-94	DIODE	1SS202-1		
D8	8-719-200-02	DIODE	10E2		
D9	8-719-028-34	DIODE	RM10-LF-D2K		
D10	8-719-910-95	DIODE	HZ9B2L		
D11	8-719-107-94	DIODE	1SS202-1		
		< IC >			
IC1	8-759-711-53	IC	NJM2068S-D		
IC2	8-759-711-53	IC	NJM2068S-D		
IC3	8-759-081-50	IC	M5233L		
		< JACK >			
JK1	1-695-273-11	JACK, RCA (LINE IN L)			
JK2	1-695-273-21	JACK, RCA (LINE IN R)			
		< COIL >			
L1	1-407-504-00	INDUCTOR	10mH		
L2	1-424-685-11	COIL, CHOKE			
L3	1-412-814-11	INDUCTOR	33mH		

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q2	8-729-204-91	TRANSISTOR	2SA1049-GR		
Q3	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q4	8-729-140-96	TRANSISTOR	2SD774-34		
		< RESISTOR >			
R1	1-249-429-11	CARBON	10K	5%	1/4W
R2	1-249-429-11	CARBON	10K	5%	1/4W
R3	1-249-429-11	CARBON	10K	5%	1/4W
R4	1-249-429-11	CARBON	10K	5%	1/4W
R5	1-249-431-11	CARBON	15K	5%	1/4W
R6	1-249-431-11	CARBON	15K	5%	1/4W
R7	1-249-431-11	CARBON	15K	5%	1/4W
R8	1-249-431-11	CARBON	15K	5%	1/4W
R9	1-249-429-11	CARBON	10K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R11	1-249-427-11	CARBON	6.8K	5%	1/4W
R12	1-249-427-11	CARBON	6.8K	5%	1/4W
R13	1-249-411-11	CARBON	330	5%	1/4W
R14	1-249-411-11	CARBON	330	5%	1/4W
R15	1-249-421-11	CARBON	2.2K	5%	1/4W
R16	1-249-433-11	CARBON	22K	5%	1/4W
R17	1-249-426-11	CARBON	5.6K	5%	1/4W
R18	1-247-903-00	CARBON	1M	5%	1/4W
R19	1-249-417-11	CARBON	1K	5%	1/4W
R20	1-249-429-11	CARBON	10K	5%	1/4W
R21	1-249-429-11	CARBON	10K	5%	1/4W
R22	1-249-417-11	CARBON	1K	5%	1/4W
R23	1-249-417-11	CARBON	1K	5%	1/4W
R24	1-247-903-00	CARBON	1M	5%	1/4W
R25	1-249-433-11	CARBON	22K	5%	1/4W
R26	1-249-440-11	CARBON	82K	5%	1/4W
R27	1-249-433-11	CARBON	22K	5%	1/4W
R28	1-249-421-11	CARBON	2.2K	5%	1/4W
R29	1-249-433-11	CARBON	22K	5%	1/4W
R30	1-249-429-11	CARBON	10K	5%	1/4W
R31	1-249-417-11	CARBON	1K	5%	1/4W
R32	1-249-429-11	CARBON	10K	5%	1/4W
R33	1-249-429-11	CARBON	10K	5%	1/4W
R34	1-249-425-11	CARBON	4.7K	5%	1/4W
R35	1-249-417-11	CARBON	1K	5%	1/4W
R36	1-249-417-11	CARBON	1K	5%	1/4W
R37	1-249-421-11	CARBON	2.2K	5%	1/4W
R38	1-249-421-11	CARBON	2.2K	5%	1/4W
**********					
	A-3295-096-A	POWER BOARD, COMPLETE			
		**********			

Ref. No.	Part No.	Description			Remark
	3-381-375-01	INSULATOR (B)			
	3-381-376-01	INSULATOR (C)			
	3-381-377-01	BUSHING			
	3-381-378-01	BRACKET			
	7-682-547-04	SCREW +B 3X6			
	7-682-548-04	SCREW +PTT 3X8 (S)			
		< CAPACITOR >			
C201	1-126-151-11	ELECT, NONPOLAR	4.7uF	20%	16V
C202	1-136-161-00	MYLAR	0.047uF	10%	50V
C203	1-126-176-11	ELECT	220uF	20%	10V
C204	1-102-963-00	CERAMIC	33PF	5%	50V
C205	1-136-163-00	MYLAR	0.068uF	10%	50V
C207	1-123-663-00	ELECT	220uF	20%	6.3V
C209	1-124-443-00	ELECT	100uF	20%	10V
C210	1-124-443-00	ELECT	100uF	20%	10V
C211	1-124-443-00	ELECT	100uF	20%	10V
C212	1-124-119-00	ELECT	330uF	20%	16V
C213	1-136-165-00	MYLAR	0.1uF	10%	50V
C214	1-136-165-00	MYLAR	0.1uF	10%	50V
C215	1-124-618-11	ELECT	2200uF		135V
C216	1-124-618-11	ELECT	2200uF		135V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-136-165-00	MYLAR	0.1uF	10%	50V
C219	1-124-119-00	ELECT	330uF	20%	16V
C220	1-136-165-00	MYLAR	0.1uF	10%	50V
C221	1-130-471-00	MYLAR	0.001uF	5%	50V
C222	1-136-153-00	FILM	0.01uF	5%	50V
C223	1-136-161-00	MYLAR	0.047uF	10%	50V
C224	1-136-161-00	MYLAR	0.047uF	10%	50V
C225	1-136-159-00	MYLAR	0.033uF	10%	50V
C226	1-136-154-00	MYLAR	0.012uF	10%	50V
C227	1-136-154-00	MYLAR	0.012uF	10%	50V
C228	1-136-159-00	MYLAR	0.033uF	10%	50V
C231	1-124-360-00	ELECT	1000uF	20%	16V
C232	1-124-618-11	ELECT	2200uF		135V
C233	1-124-618-11	ELECT	2200uF		135V
C235	1-136-899-11	MYLAR	0.47uF	5%	50V
C236	1-136-899-11	MYLAR	0.47uF	5%	50V
C238	1-136-165-00	MYLAR	0.1uF	10%	50V
C240	1-136-165-00	MYLAR	0.1uF	10%	50V
C241	1-126-234-11	ELECT	2200uF	20%	16V
C242	1-136-165-00	MYLAR	0.1uF	10%	50V
		< DIODE >			
D203	8-719-107-94	DIODE	1SS202-1		
D204	8-719-107-94	DIODE	1SS202-1		
D205	8-719-910-95	DIODE	HZ9B2L		
D206	8-719-107-94	DIODE	1SS202-1		

POWER

Ref. No.	Part No.	Description	Remark
D207	8-719-107-94	DIODE 1SS202-1	
D209	8-719-107-87	DIODE 03P2M	
D210	8-719-114-36	DIODE RD5.6JS-B1	
D211	8-719-114-44	DIODE RD6.8JS-B1	
D212	8-719-107-94	DIODE 1SS202-1	
D213	8-719-107-94	DIODE 1SS202-1	
D214	8-719-302-81	DIODE FMG-24S	
D215	8-719-302-82	DIODE FMG-24R	
D216	8-719-107-94	DIODE 1SS202-1	
D217	8-719-107-94	DIODE 1SS202-1	
D218	8-719-107-94	DIODE 1SS202-1	
D219	8-719-107-94	DIODE 1SS202-1	
		< FILTER >	
FL235	1-235-451-11	FILTER, NOISE	
FL236	1-235-451-11	FILTER, NOISE	
FL239	1-235-451-11	FILTER, NOISE	
		< IC >	
IC201	8-759-100-87	IC uPC1225H	
IC202	1-800-369-51	IC HD7402P	
		< COIL >	
L202	1-412-696-11	INDUCTOR 1mH	
		< TRANSISTOR >	
Q201	9-990-738-01	TRANSISTOR 2SC3422-Y	
Q202	8-729-017-40	TRANSISTOR 2SD718(0)	
Q203	8-729-017-41	TRANSISTOR 2SB-688(0)	
Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q206	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q207	8-729-265-52	TRANSISTOR 2SC2655-Y	
Q208	8-729-201-32	TRANSISTOR 2SA1013-O	
Q209	8-729-017-42	TRANSISTOR 2SC4131	
Q210	8-729-017-42	TRANSISTOR 2SC4131	
Q211	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q212	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q213	8-729-142-46	TRANSISTOR 2SC2001-LK	
		< RESISTOR >	
R201	1-249-432-11	CARBON 18K 5% 1/4W	
R202	1-249-431-11	CARBON 15K 5% 1/4W	
R203	1-249-431-11	CARBON 15K 5% 1/4W	
R205	1-249-413-11	CARBON 470 5% 1/4W	
R206	1-249-423-11	CARBON 3.3K 5% 1/4W	
R207	1-249-421-11	CARBON 2.2K 5% 1/4W	

Ref. No.	Part No.	Description				Remark
R208	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R209	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R210	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
R211	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
R216	1-249-441-11	CARBON	100K	5%	1/4W	
R217	1-249-427-11	CARBON	6.8K	5%	1/4W	
R218	1-249-421-11	CARBON	2.2K	5%	1/4W	
R219	1-249-427-11	CARBON	6.8K	5%	1/4W	
R220	1-249-404-00	CARBON	82	5%	1/4W	
R221	1-249-404-00	CARBON	82	5%	1/4W	
R222	1-249-421-11	CARBON	2.2K	5%	1/4W	
R223	1-249-429-11	CARBON	10K	5%	1/4W	
R224	1-249-438-11	CARBON	56K	5%	1/4W	
R225	1-249-427-11	CARBON	6.8K	5%	1/4W	
R226	1-249-431-11	CARBON	15K	5%	1/4W	
R227	1-247-881-00	CARBON	120K	5%	1/4W	
R228	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R229	1-249-432-11	CARBON	18K	5%	1/4W	
R230	1-249-423-11	CARBON	3.3K	5%	1/4W	
R231	1-249-417-11	CARBON	1K	5%	1/4W	
R232	1-249-405-11	CARBON	100	5%	1/4W	
R233	1-249-417-11	CARBON	1K	5%	1/4W	
R234	1-249-417-11	CARBON	1K	5%	1/4W	
R235	1-249-437-11	CARBON	47K	5%	1/4W	
R236	1-249-405-11	CARBON	100	5%	1/4W	
R237	1-249-426-11	CARBON	5.6K	5%	1/4W	
R238	1-216-377-11	METAL OXIDE	4.7	5%	2W	F
R239	1-216-377-11	METAL OXIDE	4.7	5%	2W	F
R240	1-249-405-11	CARBON	100	5%	1/4W	
R241	1-249-421-11	CARBON	2.2K	5%	1/4W	
R242	1-249-421-11	CARBON	2.2K	5%	1/4W	
R243	1-249-417-11	CARBON	1K	5%	1/4W	
R244	1-249-417-11	CARBON	1K	5%	1/4W	
R245	1-249-417-11	CARBON	1K	5%	1/4W	
R246	1-249-417-11	CARBON	1K	5%	1/4W	
R250	1-249-417-11	CARBON	1K	5%	1/4W	
R251	1-249-433-11	CARBON	22K	5%	1/4W	
R252	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R253	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
		< RELAY >				
RL201	1-692-223-11	SWITCH, RELAY				
		< TRANSFORMER >				
T1	1-450-999-11	TRANSFORMER, POWER				
T2	1-450-998-11	TRANSFORMER, POWER				
		< THERMISTOR >				

POWER VOLUME

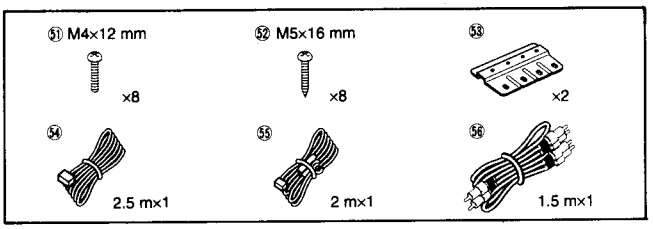
Ref. No.	Part No.	Description			Remark
TH201	1-807-335-11	THERMISTOR (POSITIVE)			
**********					
	A-3295-095-A	VOLUME BOARD, COMPLETE (including LED BOARD)			
		**********			
		< CAPACITOR >			
C101	1-101-004-00	CERAMIC	0.01uF		50V
C102	1-101-004-00	CERAMIC	0.01uF		50V
C103	1-124-903-11	ELECT	1uF	20%	50V
C104	1-102-973-00	CERAMIC	100PF	5%	50V
C105	1-102-973-00	CERAMIC	100PF	5%	50V
C106	1-130-477-00	MYLAR	0.0033uF	5%	50V
C107	1-130-477-00	MYLAR	0.0033uF	5%	50V
C108	1-130-484-00	MYLAR	0.012uF	5%	50V
C109	1-130-480-00	MYLAR	0.0056uF	5%	50V
C110	1-130-484-00	MYLAR	0.012uF	5%	50V
C111	1-130-480-00	MYLAR	0.0056uF	5%	50V
		< CONNECTOR >			
CN102	1-695-407-11	CONNECTOR			
CN103	1-695-279-11	CONNECTOR			
		< DIODE >			
D101	8-719-940-99	LED SLH-34VC3F (POWER)			
		< IC >			
IC101	8-759-711-53	IC NJM2068S-D			
IC102	8-759-711-53	IC NJM2068S-D			
IC103	8-759-711-53	IC NJM2068S-D			
		< RESISTOR >			
R101	1-247-758-11	CARBON	3.3k	5%	1/2W
R102	1-249-435-11	CARBON	33K	5%	1/4W
R103	1-247-439-11	CARBON	68k	5%	1/4W
R104	1-247-868-11	CARBON	36K	5%	1/4W
R105	1-247-899-11	CARBON	680K	5%	1/4W
R106	1-249-441-11	CARBON	100K	5%	1/4W
R107	1-249-427-11	CARBON	6.8K	5%	1/4W
R108	1-247-882-11	CARBON	130K	5%	1/4W
R109	1-247-872-11	CARBON	51K	5%	1/4W
R110	1-249-441-11	CARBON	100K	5%	1/4W
R111	1-249-441-11	CARBON	100K	5%	1/4W
R112	1-249-441-11	CARBON	100K	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W
R114	1-247-856-00	CARBON	11K	5%	1/4W
R115	1-249-429-11	CARBON	10K	5%	1/4W
R116	1-249-441-11	CARBON	100K	5%	1/4W
R117	1-249-417-11	CARBON	1K	5%	1/4W
R118	1-247-856-00	CARBON	11K	5%	1/4W
R119	1-249-429-11	CARBON	10K	5%	1/4W
R120	1-247-881-00	CARBON	120K	5%	1/4W
R121	1-247-881-00	CARBON	120K	5%	1/4W
R122	1-247-881-00	CARBON	120K	5%	1/4W
R123	1-247-881-00	CARBON	120K	5%	1/4W
R124	1-249-421-11	CARBON	2.2K	5%	1/4W
		< SWITCH >			
SW101	1-692-217-11	SWITCH, PUSH (PHASE)			
		< VARIABLE RESISTOR >			
VR101	1-241-986-11	RES, VAR, CARBON 5K (GAIN)			
VR102	1-241-986-11	RES, VAR, CARBON 5K (WIDTH)			
VR103	1-241-985-11	RES, VAR, CARBON 20K (FREQ)			
**********					
		MISCELLANEOUS			
		**********			
SP1	1-544-760-11	SPEAKER			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
F1	1-532-508-11	FUSE 8A			
F2	1-532-417-11	FUSE 2A			
*	3-379-666-01	CUSHION			
	3-379-668-01	INDIVIDUAL CARTON (AEP)			
	3-380-734-01	INDIVIDUAL CARTON (E)			
	3-755-215-11	MANUAL, INSTRUCTION			

Ref. No.	Part No.	Description	Remark

HARDWARE LIST

#1	7-682-562-04	SCREW +P 4X10
#2	7-685-663-79	SCREW +BVTP 4X16 TYPE2
#3	7-682-563-09	SCREW +B 4X12
#4	7-682-549-09	SCREW +B 3X10
#5	7-682-549-04	SCREW +B 3X10
#6	7-682-547-04	SCREW +B 3X6
#7	7-682-548-04	SCREW +PTT 3X8 (S)

MOUNTING HARDWARE



51	7-682-563-09	SCREW +B 4X12
52	7-685-674-19	SCREW +BVTP 5X16 TYPE2 N-S
53	3-380-817-01	BRACKET
54	1-696-166-11	CORD, SPEAKER
55	1-696-167-11	CORD, POWER (including F1, F2)
56	1-551-839-31	CORD, CONNECTION

9-957-087-11

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